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Jordan School District

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## About the District

- Largest of Utah's 40 districts and among 50 largest districts in the nation.
- The District has 9,000 employees.
- Located in Southern Salt Lake County with 75,000 students.
- Comprised of 86 schools in a 250 square mile area radius.
- On the Web: www.jordandistrict.org

## **Transportation Department**

- Fleet of 269 buses, including 20 CNG
- 17 buses on order, including 10 CNG
- 102 drivers ed. cars, including 2 CNG
- 200 additional vehicles, includes 6 CNG
- Transport 21,000 students daily
- Average 5,000 annual field trips/runs
- Travel more than 4.8 million miles yearly
- Maintenance one of Top 10 in America

### SUCCESSFUL CNG PROGRAM

- Requires a successful team effort, with a commitment from everyone.
- The Jordan District Team involves:
  - All levels of Administration
  - Clean Cities Coalition
  - EPA
  - Questar Corp. (fuel supplier)
  - Department of Energy
  - National Energy Foundation
  - Fuel Maker
  - John Deere
  - Suppliers, including Blue Bird, Thomas, Honda, etc.

## Department Commitment

- Positive attitude from the Department Director, Route Coordinators, and Staff.
- Mechanic support and annual training from vendors, including before arrival of new buses and equipment.
- Bus driver support and training, along with students, parents and others.
- Don't get discouraged. Keep at it with a positive attitude for improvement and success.

#### **FACT SHEET**

## Transportation Department Fact Sheet



#### Transportation Employees

- · 275 professional school bus drivers
- · 60 professional school bus attendants
- · 45 mechanics, parts, dispatchers, trainers, support staff

#### Fleet

- · 269 school buses (20 natural gas buses)
- · 102 drivers education cars
- 204 additional vehicles (3 mail vans, 2 maintenance trucks and 1 forklift run on alternative fuel primarily natural gas)
- 4.8 million miles traveled yearly

#### Students/Schools

- · 84 schools Served
- 20,000 regular education students transported daily
- · 1,500 special education students transported daily
- 5,000 field trips/activity trips yearly

#### Training/Testing

- · 18 hours, all drivers receive yearly training
- . 60 hours training received by substitutes before hire
- · 9,157 training hours provided yearly

#### Did You Know?

- Ninety (90) percent of Jordan School District bus drivers were accident free last year.
- The District's bus fleet includes 20 CNG (clean natural gas) buses.
   Jordan School District leads the way for clean air in Utah and is the only school district in Utah operating natural gas buses.
- Students at West Jordan High School drive two CNG drivers education vehicles.
- Our drivers won the 2004 National Special Education Road-eo.
- Top Ten: Our bus maintenance program was named one of North America's best by School Bus Fleet in 2002.
- Winner of the 2000-01 Utah Highway Patrol Silver Award for Outstanding Bus Maintenance.
- In 2000, School Bus Fleet featured Jordan District as Utah's finest school bus fleet.

www.jordandistrict.org/ depts/transportation.htm











Jordan School District. HATIONAL ENERGY FOUNDATION

#### Jordan School District Alternative Fuel Drivers Education Training

- · West Jordan High in Jordan School District is likely the first high school drivers education program in the United States utilizing alternative fuel vehicles (AFVs).
- . The program was made possible with the use of grant funds awarded by the U.S. Department of Energy (DOE).
- Program partners include Jordan School District, DOE, Clean Cities Program, FuelMaker, National Energy Foundation, and American Honda Motor Company.
- . The program will impact approximately 700 students electing to take drivers education at West Jordan High School this year.
- · Educational materials on alternative fuels are being provided to the driver's education students.
- . In addition to learning the rules of the road, safety issues, and actual driving experiences, the students have the opportunity to discover how alternative fuel is being used in the transportation industry through classroom discussion and presentations by alternative fuel professionals.
- Two Honda Civic GX dedicated natural gas vehicles are being used to provide the students with an actual alternative fuel driving experience.
- · A FuelMaker natural gas fueling appliance is on site for convenient fueling of the natural gas vehicles.
- Alternative fuels are abundant in the United States, generally cost less and are always cleaner burning.
- · Right now a gallon of natural gas costs nearly a dollar less than a gallon of regular unleaded.
- . The United States imports about 55 percent of the petroleum we need, and a majority of those imports come from the Middle East.

- · If you buy an alternative fuel vehicle (AFV) you can get a state tax credit and a federal tax deduction.
- . Jordan District, which the U.S. Department of Energy has deemed the "premier alternative fuel school bus fleet in Utah." has 20 buses, three mail vans, two maintenance trucks and a forklift that run on alternative fuel sources - primarily natural gas.
- Since 1992, Jordan School District has successfully operated dedicated natural gas buses and realized reduced emissions. It is the only school district in Utah that uses natural gas buses.
- The natural gas-powered Honda Civic GX has the cleanest internal combustion engine in the world.
- . The natural gas vehicles used by West Jordan High get an average 32 miles per/gasoline gallon equivalent. With the existing price of natural gas, that's about .03 per mile in fuel costs.
- · Alternative fueled vehicles are safe to operate.
- . In addition to compressed natural gas, the other alternative fuels are propane, electric, ethanol (E-85) and biodiesel. All fuels are available in Utah.
- Both large and small fleets, as well as public and private fleets in Utah, are driving AFVs.

For more general information on AFVs, consult www.fleets.doe.gov

or for local information contact Salt Lake Clean Cities, 535-7736, or Jordan School District Transportation Department, 567-8840

## **AFV Drivers** Education Fact Sheet

www.jordandistrict.org/ depts/transportation.htm

# Activists urging schools to use alternative fuels Deseret News

www.jordandistrict.org/ depts/transportation.htm

#### deseretnews.com

Deseret News, Tuesday, August 19, 2003

#### Activists urging schools to use alternative fuels

Jordan District called 'premier' fleet in Utah

#### By Andrea Christensen

Deseret Morning News

The state's largest school district is well on its way to acquiring an environmentally friendly transportation fleet, and representatives from Salt Lake's Clean Cities Coalition are hoping other Utah districts will follow suit.

Jordan District, which the U.S. Department of Energy has deemed the "premier alternative fuel school bus fleet in Utah," has 19 buses, three mail vans, two maintenance trucks and a forklift that run on alternative fuel sources — primarily natural gas. The district, whose fleet travels about 3.1 million miles a year, just added two natural gas Honda Civics to those numbers. The Hondas will be used for drivers education at West Jordan high School.

"Jordan has simply been enthusiastic about it," said Beverly Miller, Salt Lake's Clean Cities director. And Miller, along with other environmental afficionados, presented the case for alternative fuels at Utah school board meetings this summer in an attempt to get more people enthusiastic about the cause.



Willie Martinez fills one of the 19 Jordan District buses that run on compressed natural gas. Kno Konah, Deems Memby Nece

"Our primary goal is the one we state to school boards — we are interested in writing grants to help school districts get into new systems," she said. "Goal two is to simply get out there and tell school boards our story. We're just attempting to make it a little more public."

The story the coalition is bringing to the Salt Lake, Granite, Davis and Murray school boards is a story of clean air and of reliance on domestic, not foreign, fuel sources. Those sources include compressed natural gas, biodiesel (which, in Utah, is made from virgin soybean oil) and ultra-low-sulfur diesel — all of which will help buses meet new emissions standards to be implemented in 2007.

So what's not to love about these fuels, and why aren't all districts hopping on the Jordan bandwagon?

It's largely a matter of money. To buy a natural gas bus, a district can expect to spend \$30,000 to \$35,000 more than it would on a diesel bus. Running a bus on biodiesel requires no change to a diesel bus, but the fuel can cost 20 to 30 cents more per gallon. Even Miller recognizes that Utah's districts have "seriously tight budget constraints," but she hopes that with federal grants

## Perseverance with CNG Buses Questar's **NewsQuest**

www.jordandistrict.org/ depts/transportation.htm

#### Utah school district gets high marks for perseverance with natural gas buses

Drivers report that newer generation of engines is virtually trouble free

Scotter or later, just about priveryone who works with - or writes about - natural.

business to make money, not. schools be a minos mig for every new idea that comes down the

Like most new machines. prototype matural gas singines have liad their share of problems. And those problems - prototype Commins 5.7-liter have driven a loc of people

In 1992, Dr. Ron Sing. then the district's transportation director, convinced the school board to take a bold step: to hay as 64-passenger school bus equipped with a natural gas engine: According to Holly Evans, who disese that first bus, It ex - danger flow backer long as you were running emerty on level ground, "But when we had a foul of enidents on a hill, we were going 10 or 15 mph max."

Quite simply, the engine was too small for such a logbus. And there were other problems. For one, the processor regulator used to freeze up as the gas moved from the pressurized storage tunks to the engine.

Nevertheless, the distract persevered. "With a new product, you're grong to have problems," says Willy Martinez, the district's shops supervisor. This just have to have the right attende."

In those early years, Martinez would consult regularly with Meantain Fuel now Questar Garl finet specialism, who already liad reason titues a demaile of especience weeking on natural gas vehicles.

About two years later the district ordered three more naminal gas buses. By then the manufacturer had addressed the became problem, but the buses were still underrowered.

The naming point came in May 2000 when the district mok delivery on the first of

Continued not page 27



James Hisrida Balti, director of tromsportation for the Junior School District, and Willy Hartman, the district's shape supervisor, cleak out or origins in one of the natural gas-powered busin.

gas vehicles (NGVs) heren a story that goes like this: "Named as vehicles!

Made, we gave 'em a try man-We had a couple of fill in type of vehicle here! with prototype natural gas engines. The poultle was, every time we got to a hill, everyone had to an out and push. Oh, and the regulators used to freezaup if you just looked at 'em-

"Would I be willing to try. one again! Hest I'm in

away. So, when you find an organization with a belief in the environmental beautits of the product and the determination to work through the problems, well, it's a story.

Which brings us to Utah's largest school district, the Jurdan School District, with 83 schools in the southern end of the Salt Lake Valley. It taken a fleet of more than 500 vehicles, including 260 bases. several rear-engine bases serviced by a crew of 15 mechanics, to serve these 83

## **Questions and Answers**

 Questions will be taken and answered following these presentations in a designated Q/A period.

THANK YOU!

